June 2026 Portfolio Groundwater Modeling

MONTGOMERY & ASSOCIATES
Water Resource Consultants

SVBGSA Advisory Committee

June 18, 2026

Portfolios (named just by key project)

Last Meeting

- Portfolio 1 – BGRP Injection Only
- Portfolio 2 – NSIP
- Portfolio 3a – Small BGRP

New Portfolios

- Portfolio 3b – Small BGRP + C&E Injection
- Portfolio 4 – Low-Cost Projects

Three Portfolios

Portfolio 1 (previously modeled)	Portfolio 3B	Portfolio 4
Avoid GWL and SWI Undesirable Results	**Avoid GWL and SWI Undesirable Results with Smaller BGRP**	**Small Capital Cost Projects**
Medium BGRP with injection only	Small BGRP with partial direct delivery to Salinas and partial injection	
C&E recharge basins in the Eastside with 100 cfs diversion	C&E recharge basins in the Eastside with 100 cfs diversion	C&E recharge basins in the Eastside with 50 cfs diversion
10% agricultural demand management	10% agricultural demand management	20% agricultural demand management
CSIP optimization	CSIP optimization	CSIP optimization
	C&E injection in the 400-Foot Aquifer with 50 cfs diversion	C&E injection in the 400-Foot Aquifer with 50 cfs diversion

All portfolios will include:

- Deep Aquifers demand management
- Corral de Tierra demand management

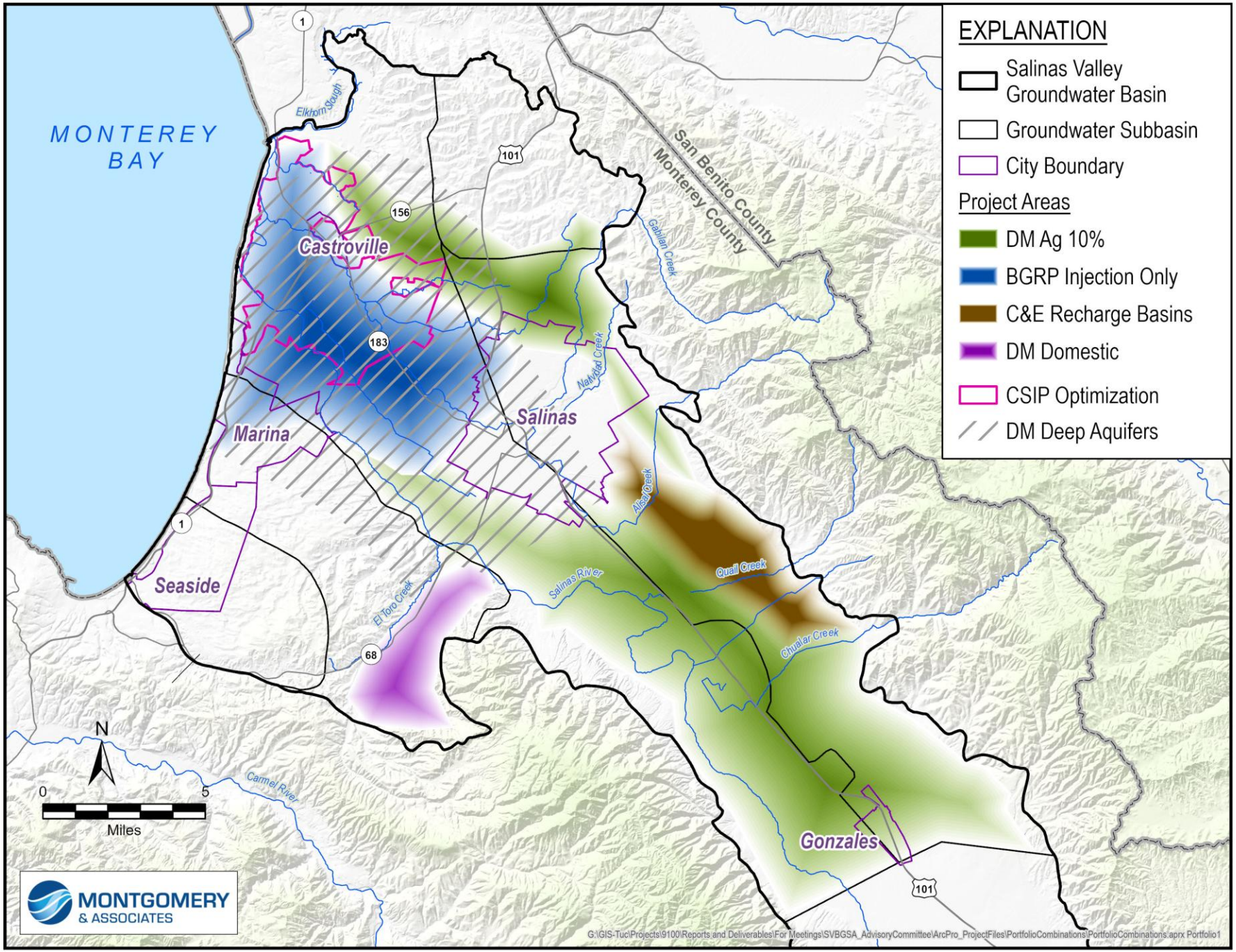
Portfolio 1

Medium BGRP Injection Only

C&E 100 CFS Recharge Basins

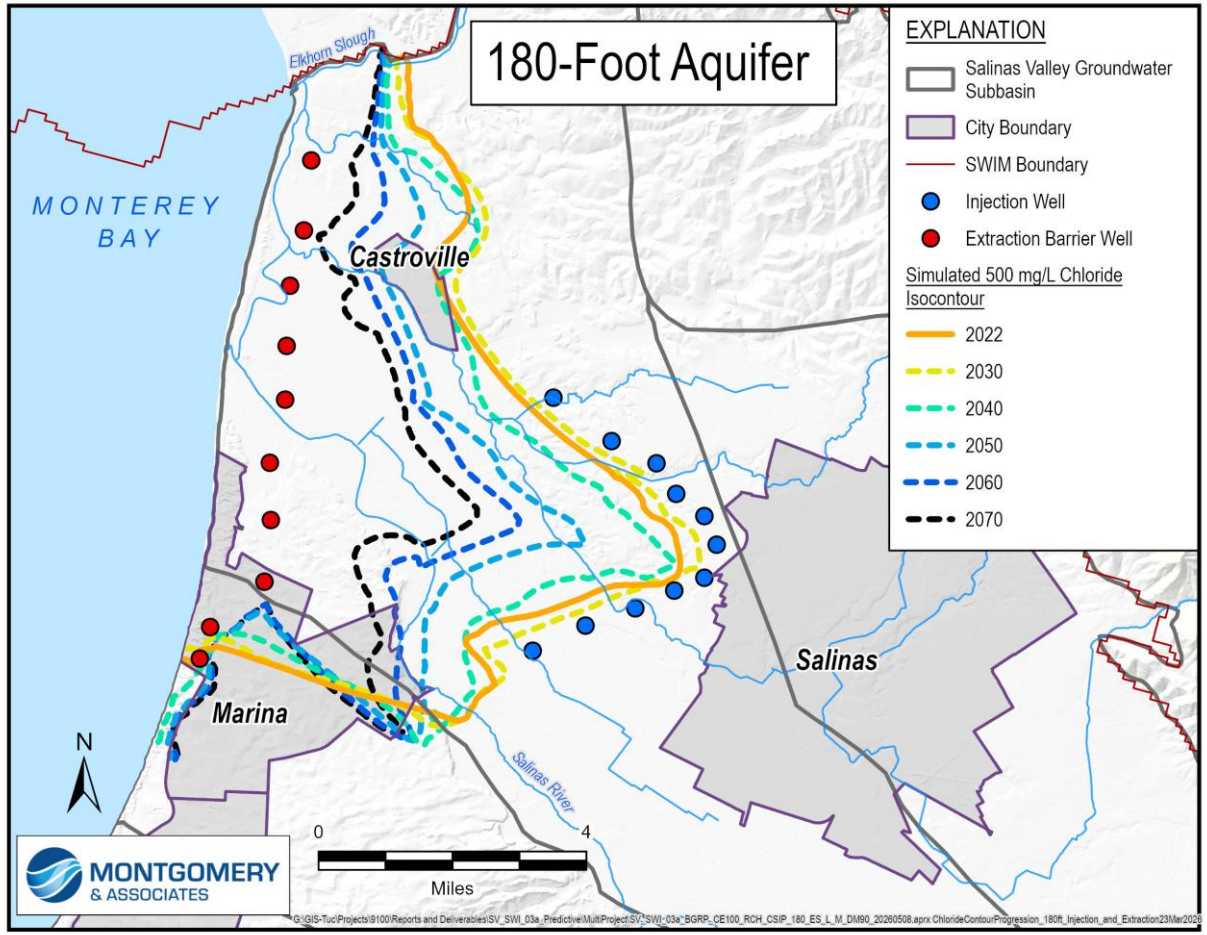
CSIP Optimization

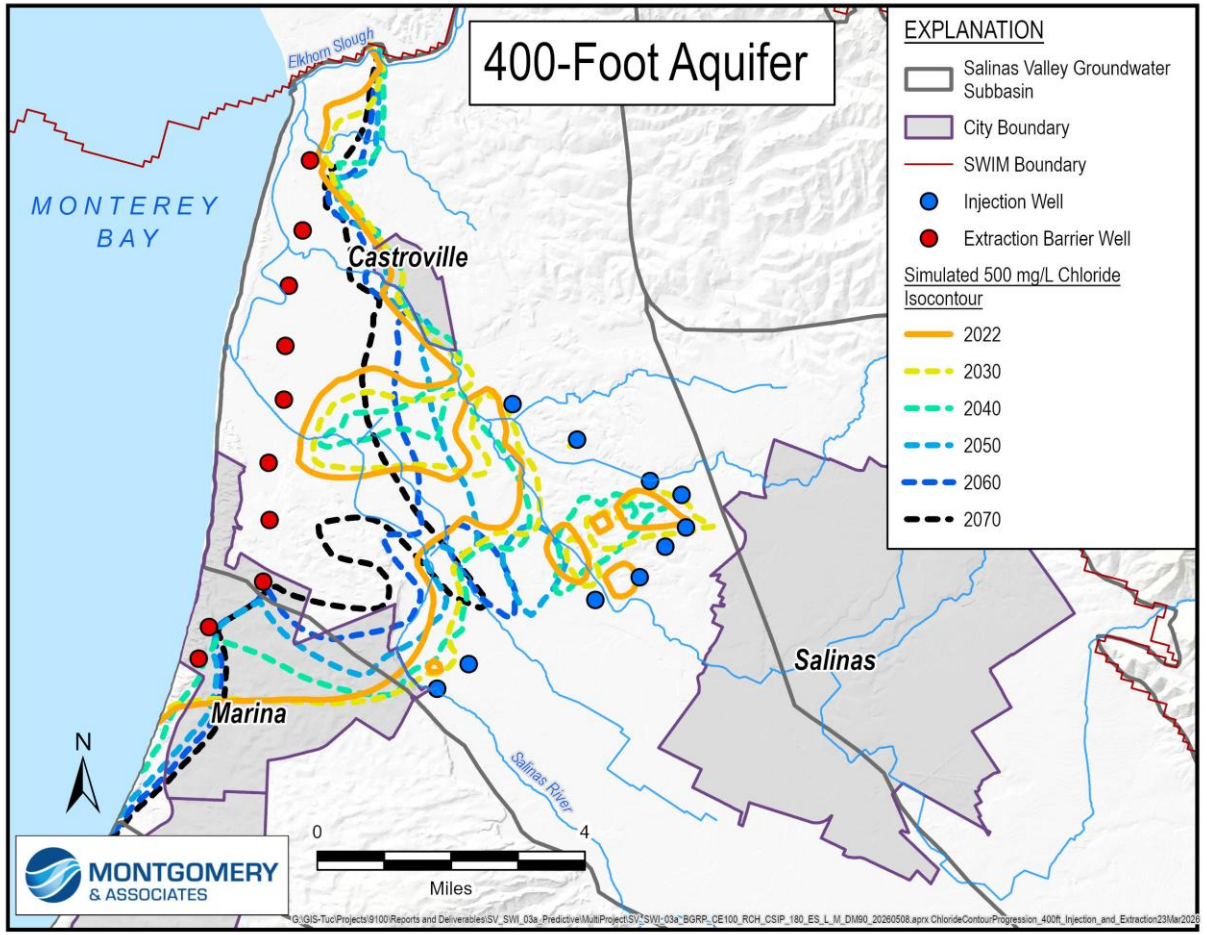
10% Ag Demand Management (North Valley)



Portfolio 1 Map

Chloride Contour Progression





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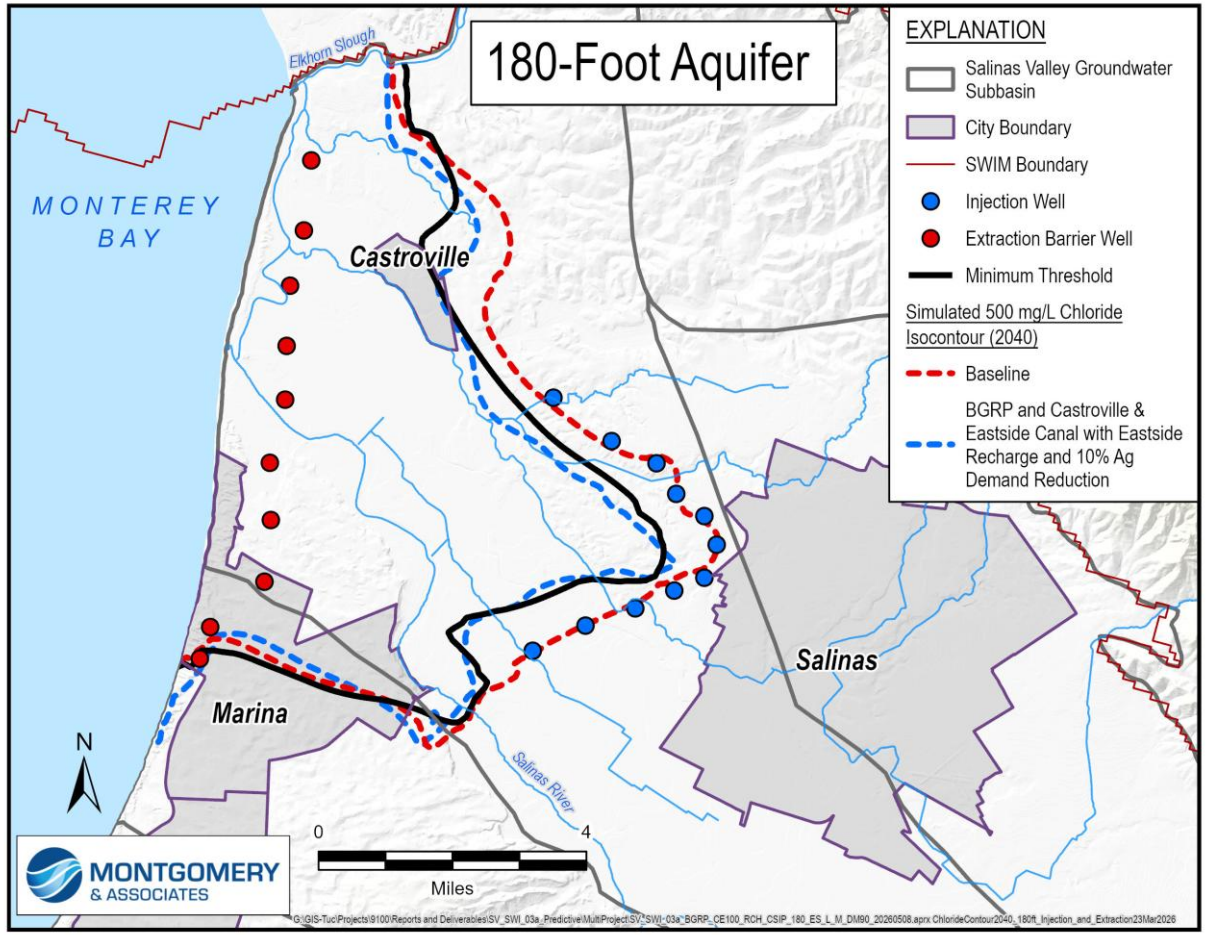
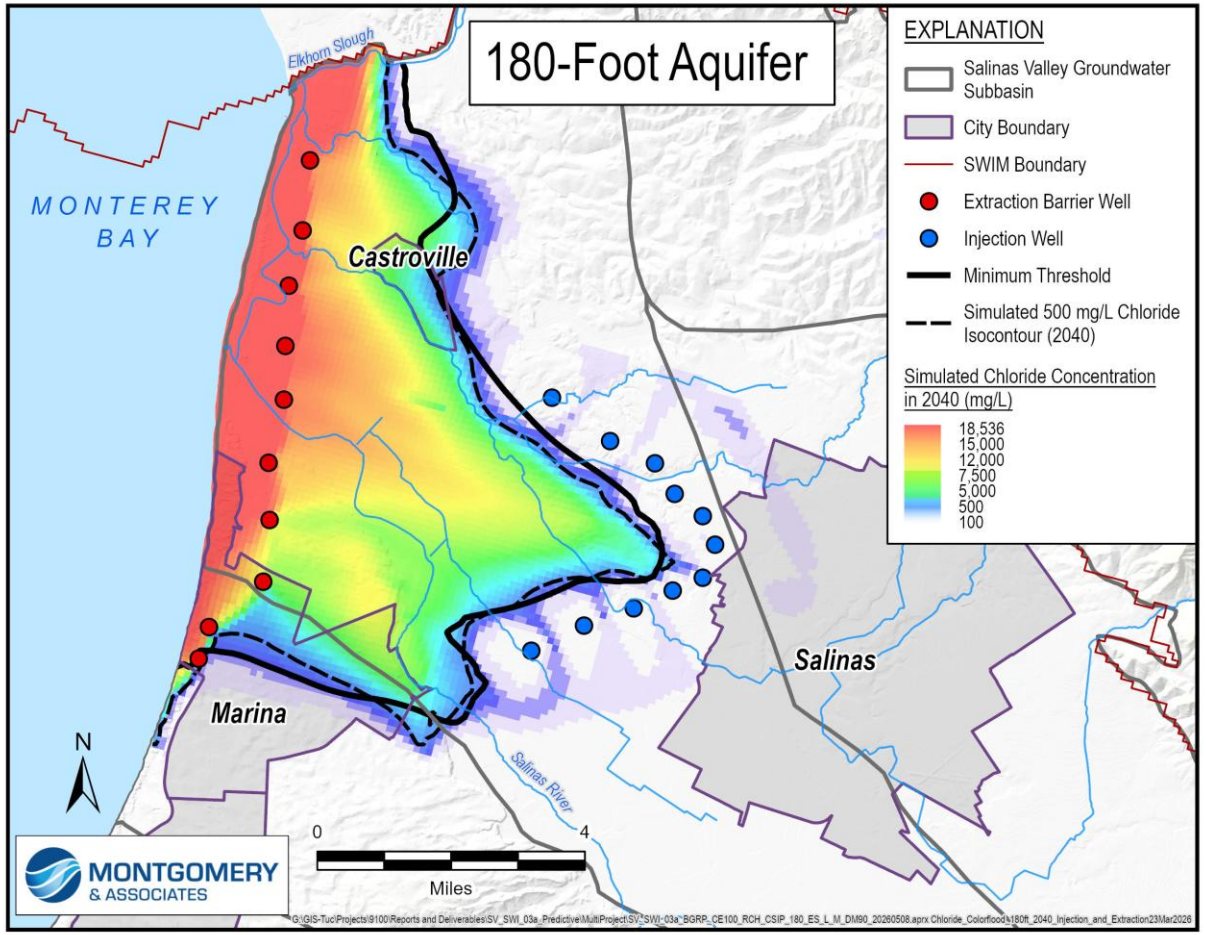
180-Ft Aquifer Chloride Results in 2040





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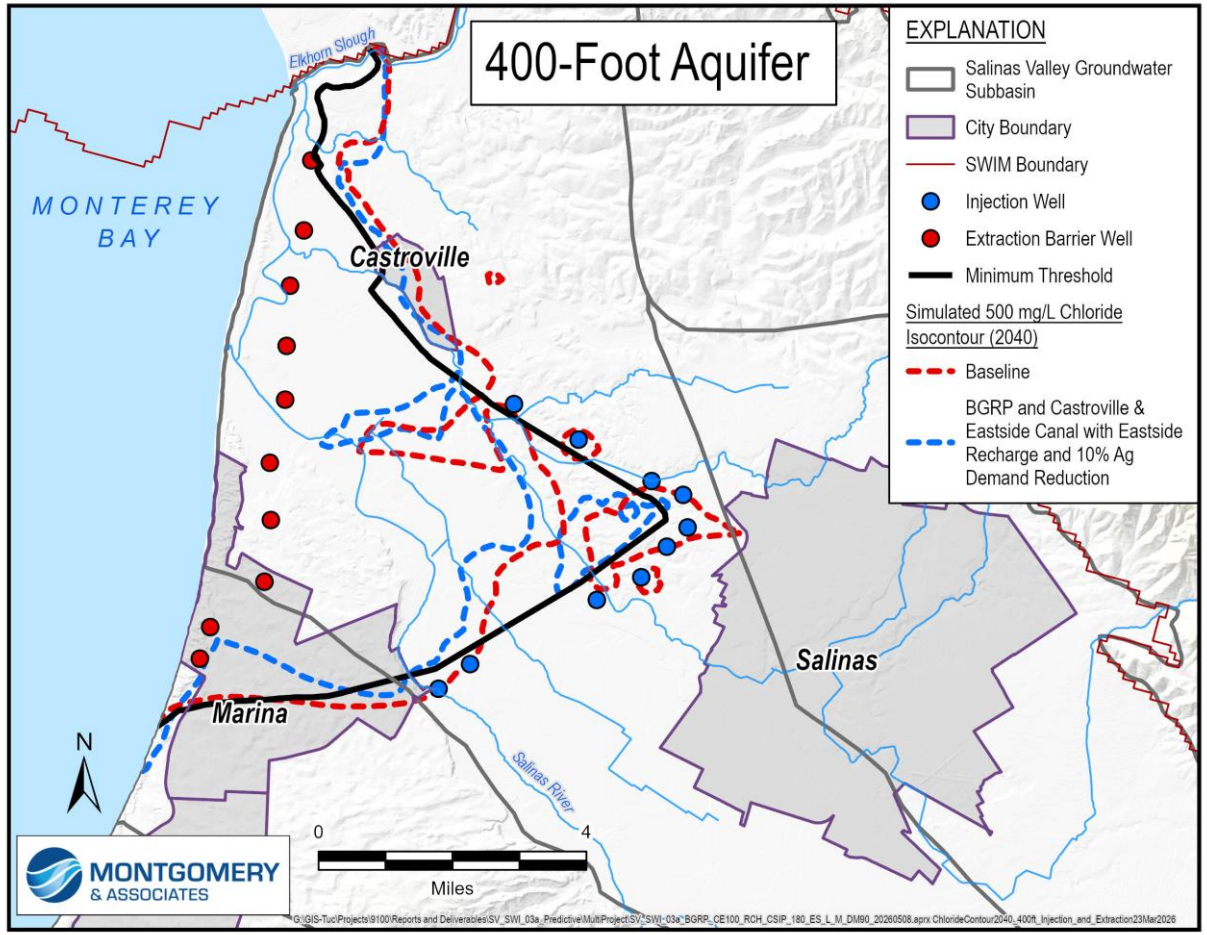
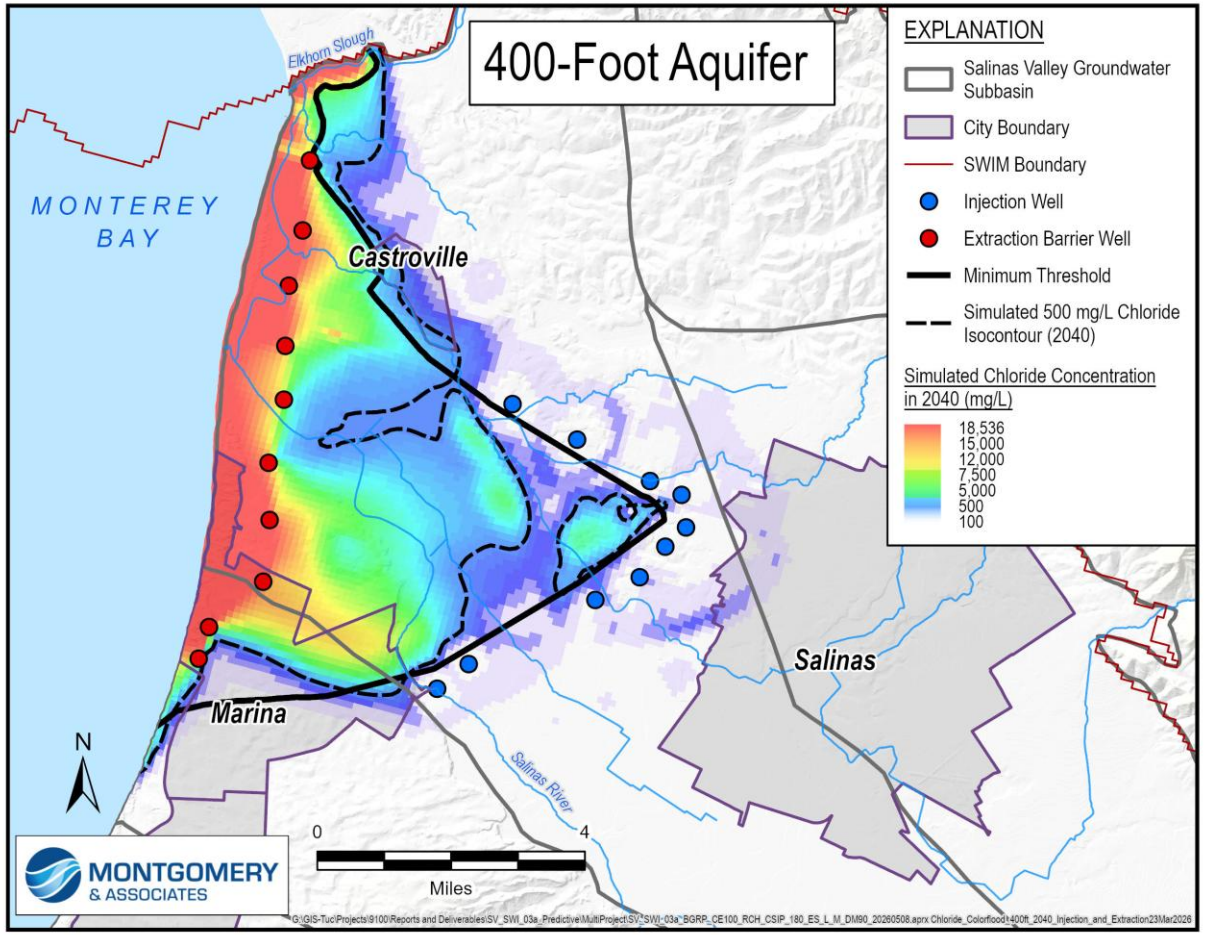
400-Ft Aquifer Chloride Results in 2040





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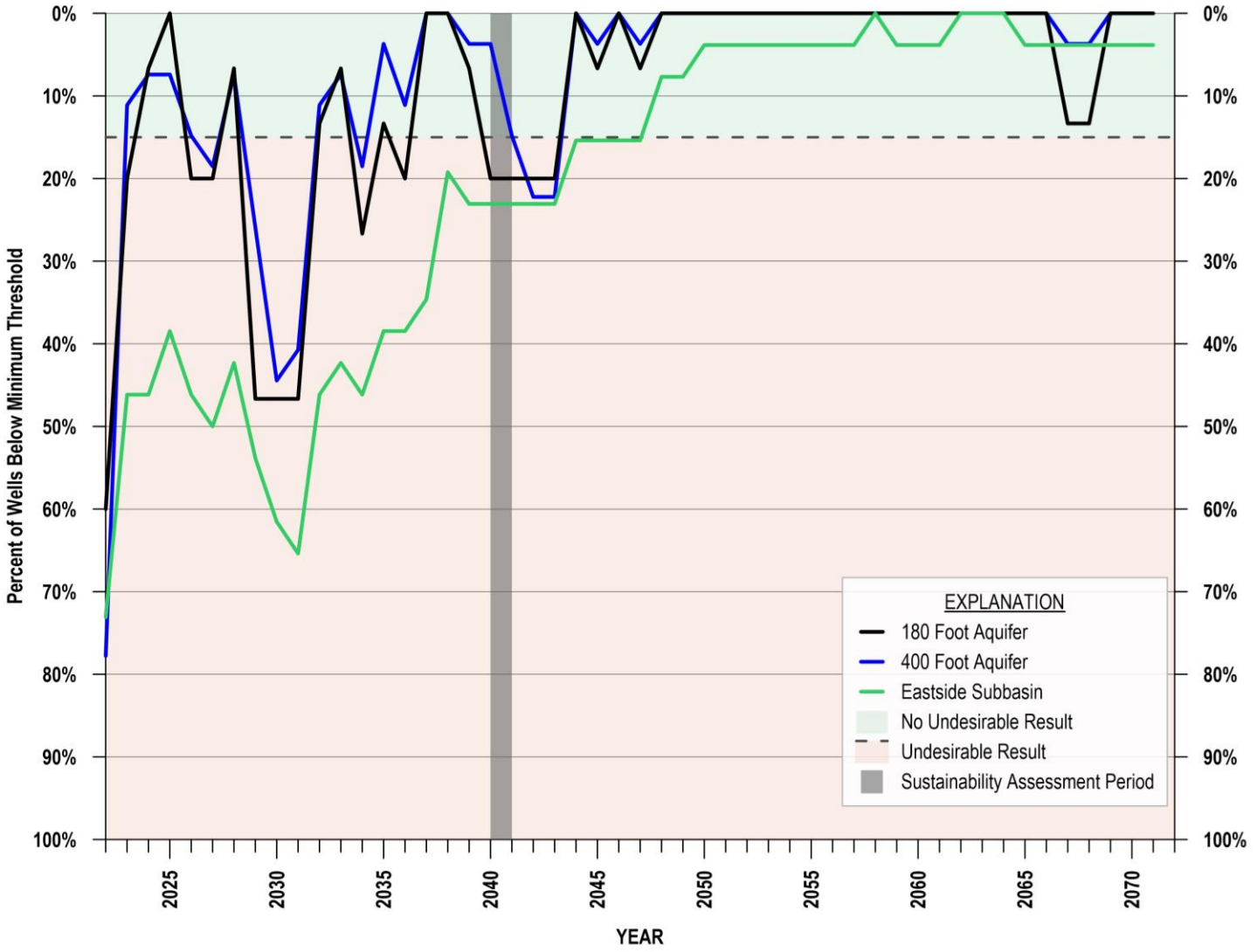
Groundwater Level SMC: Portfolio 1

Subbasin/Aquifer	Threshold Exceedances	Total Wells	% Threshold Exceedances
180-Foot Aquifer	4	21	19%
400-Foot Aquifer	3	29	10%
Eastside Subbasin	7	33	21%
Langley Subbasin	7	13	54%

Groundwater Level SMC: Portfolio 1



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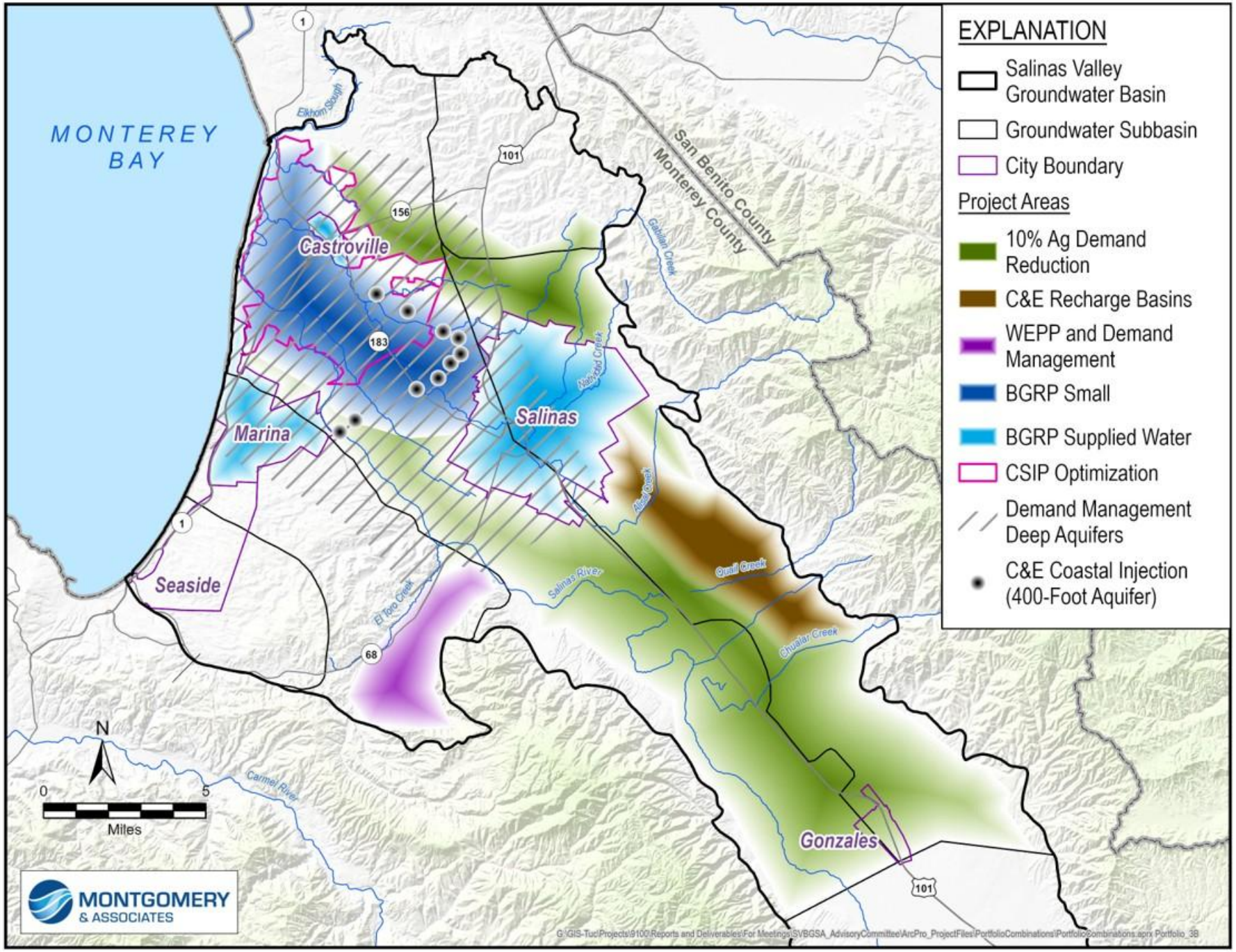
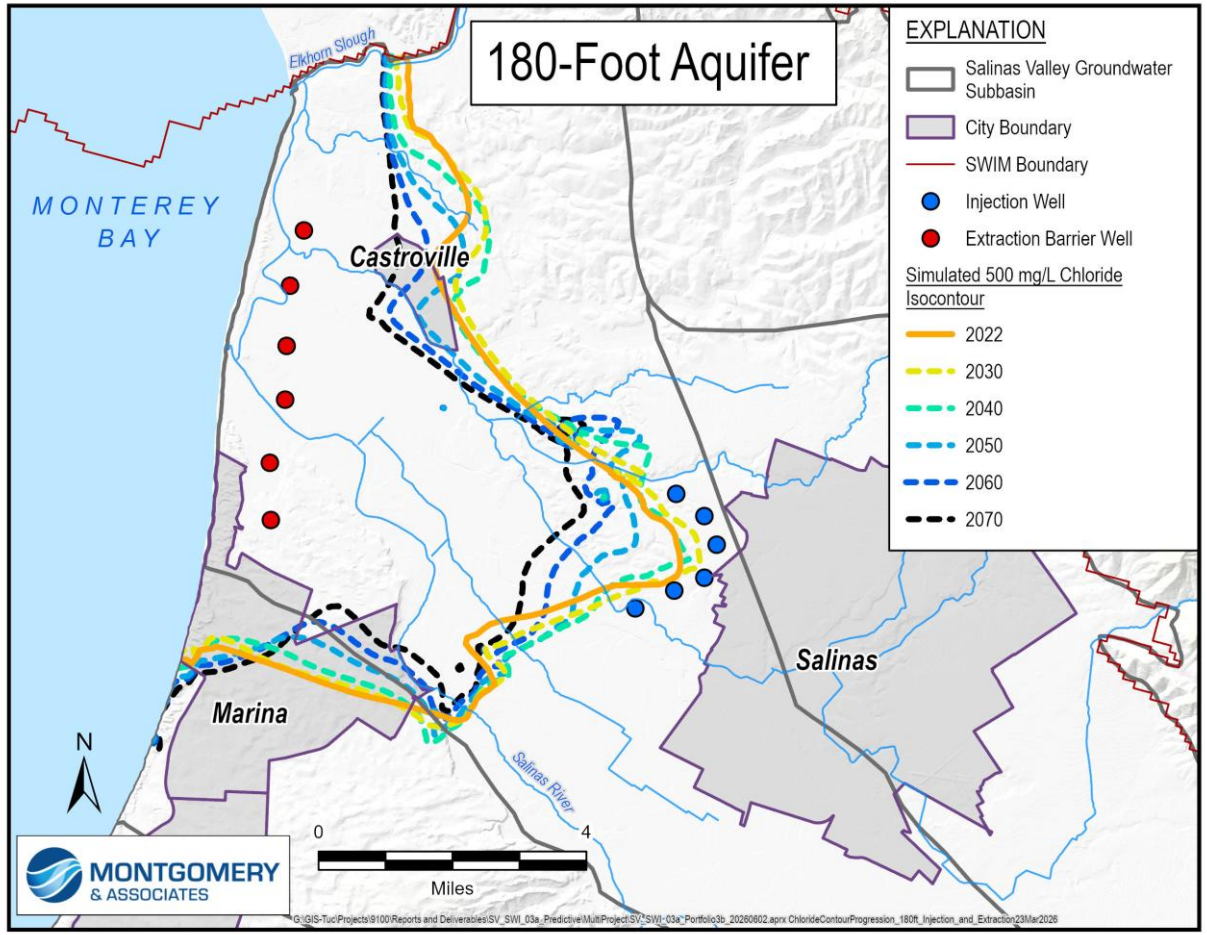
Portfolio 3B

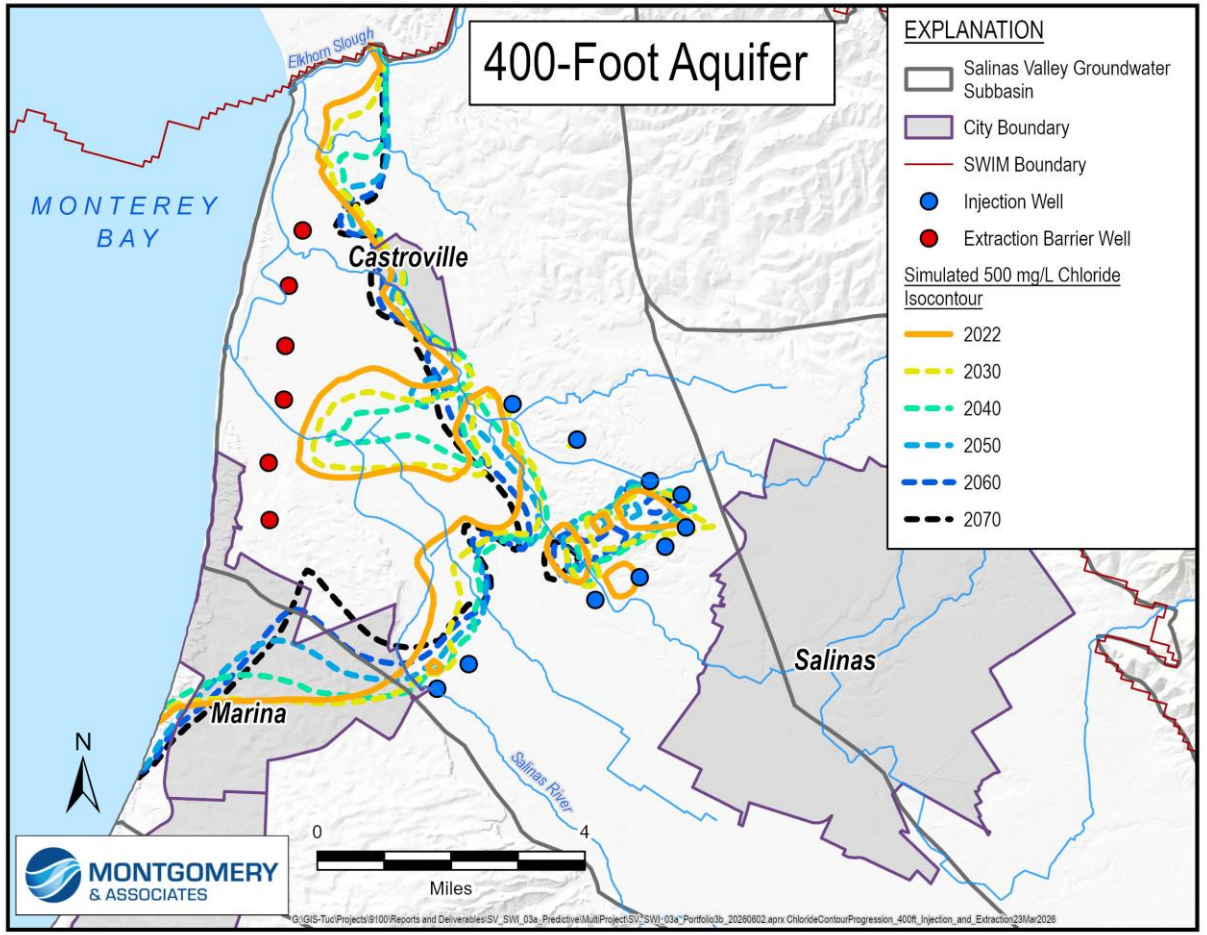
- Small BGRP with Direct Delivery and Injection
- C&E 100 CFS Recharge Basins
- CSIP Optimization
- 10% Ag Demand Management (North Valley)
- C&E Injection (400-Foot Aquifer) with 50 CFS Diversion



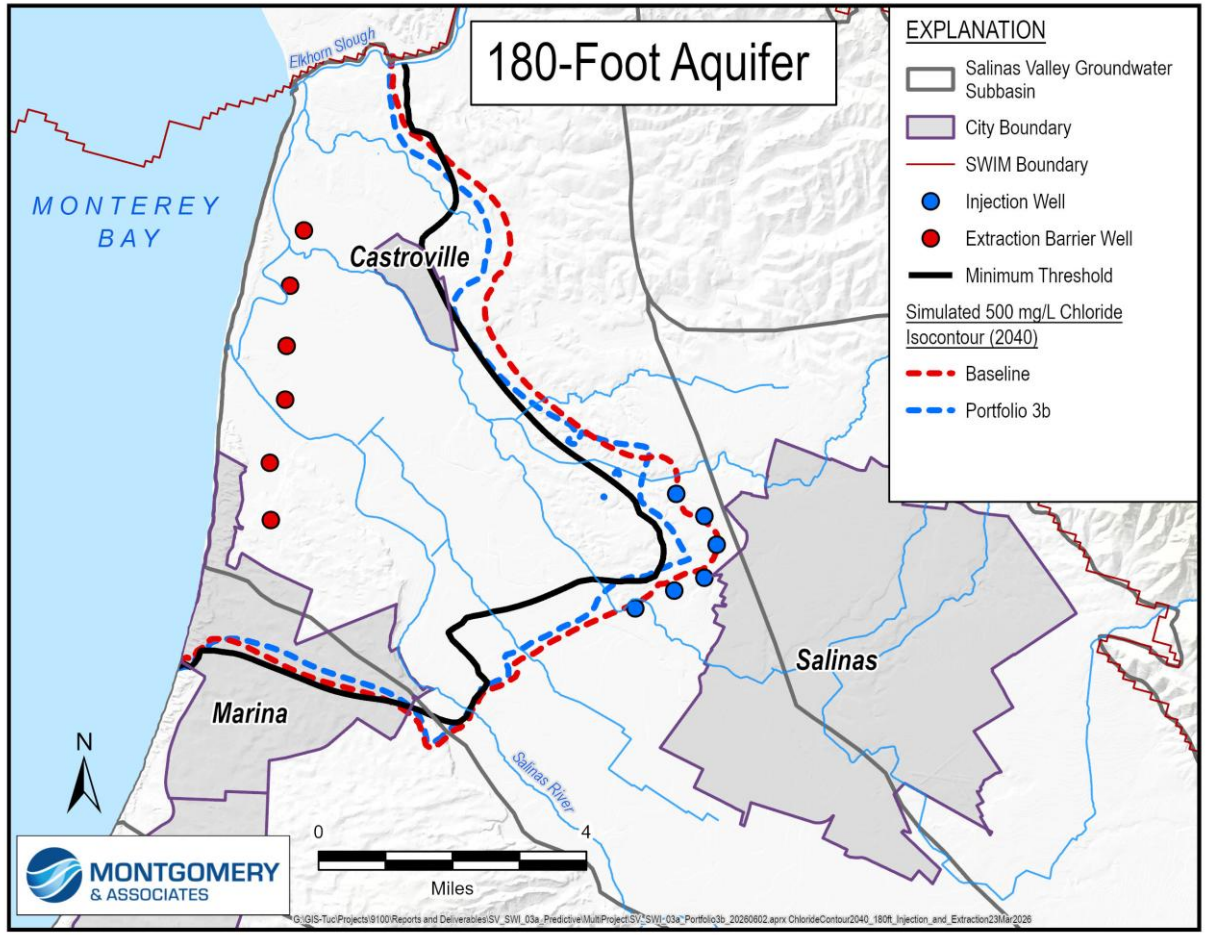
Portfolio 3B Map

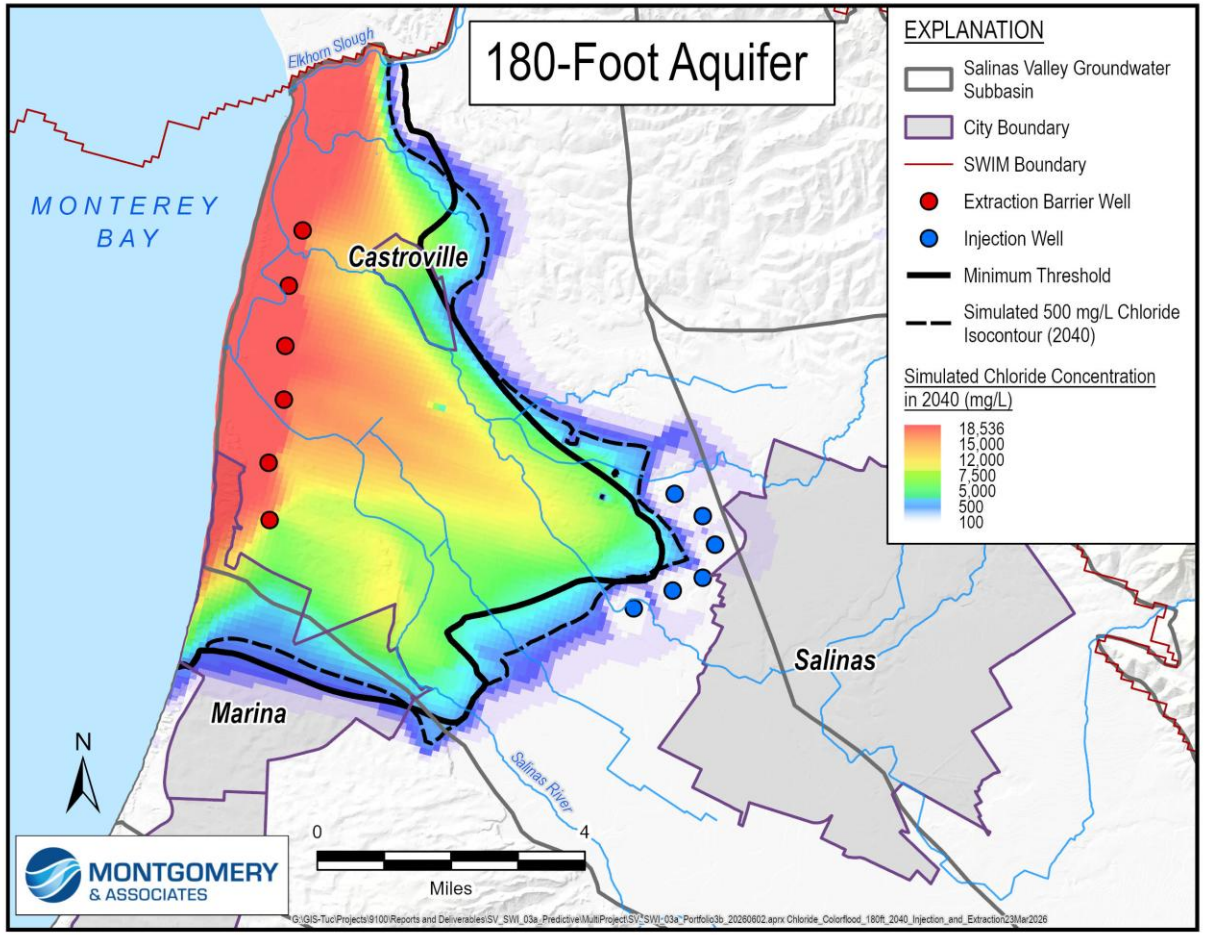
Chloride Contour Progression



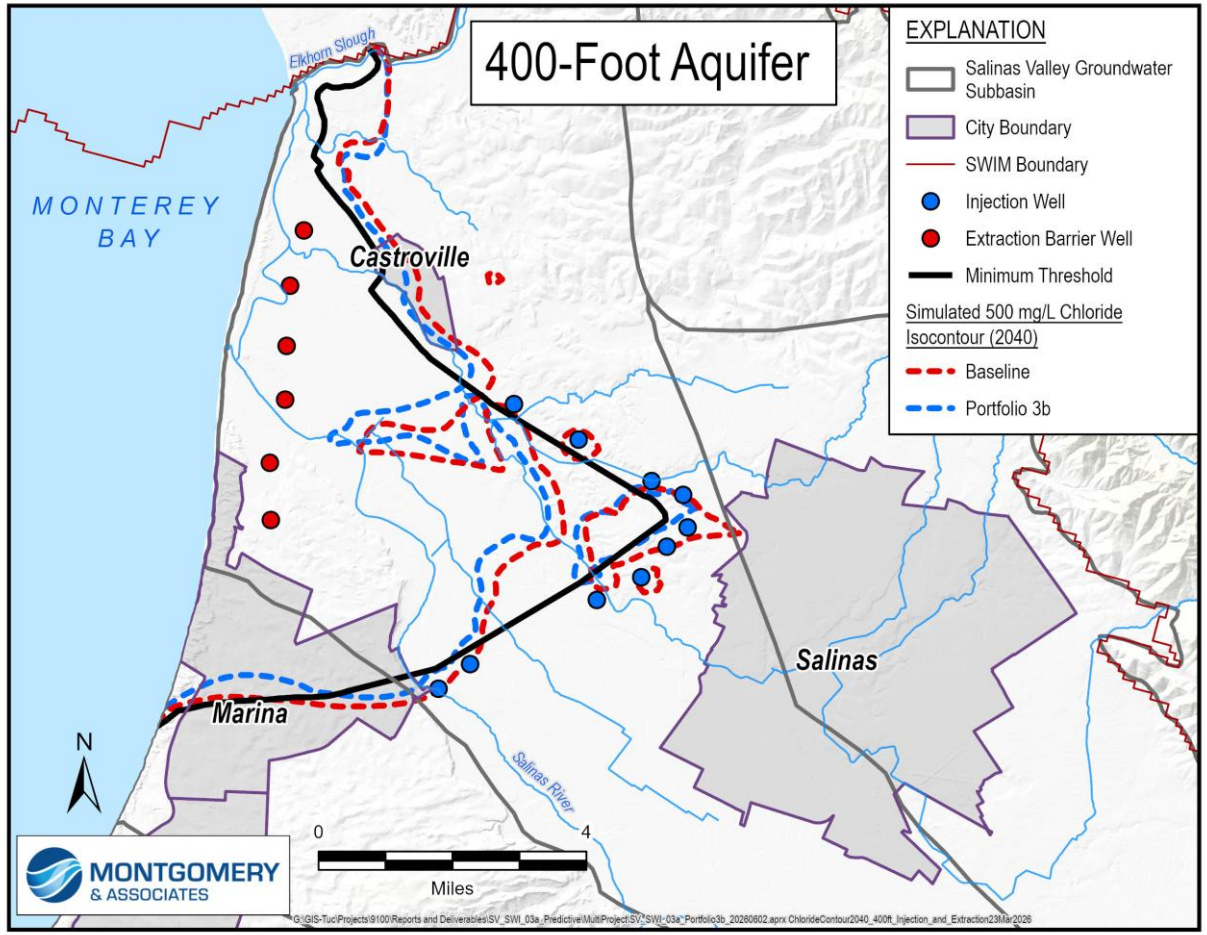


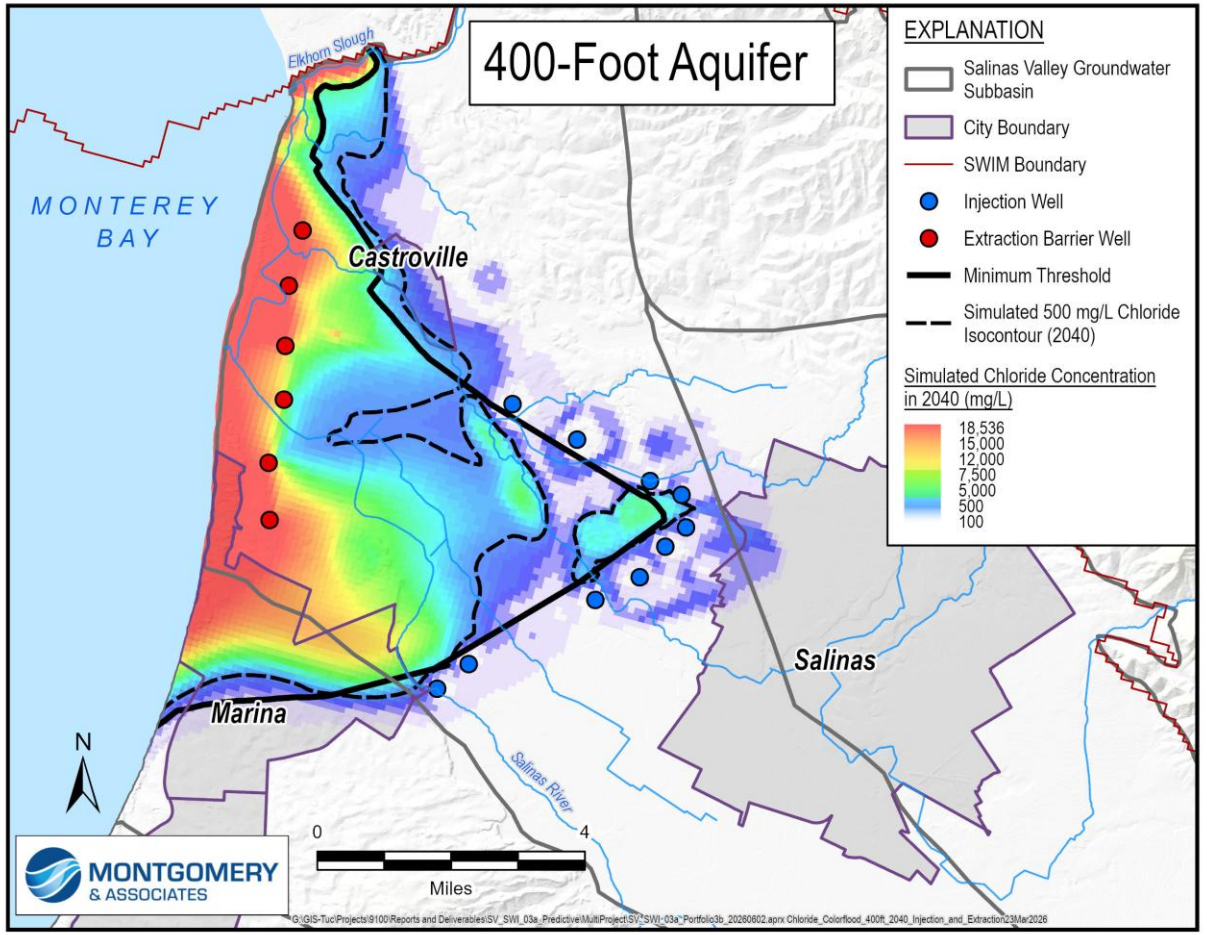
180-Ft Aquifer Chloride Results in 2040





400-Ft Aquifer Chloride Results in 2040





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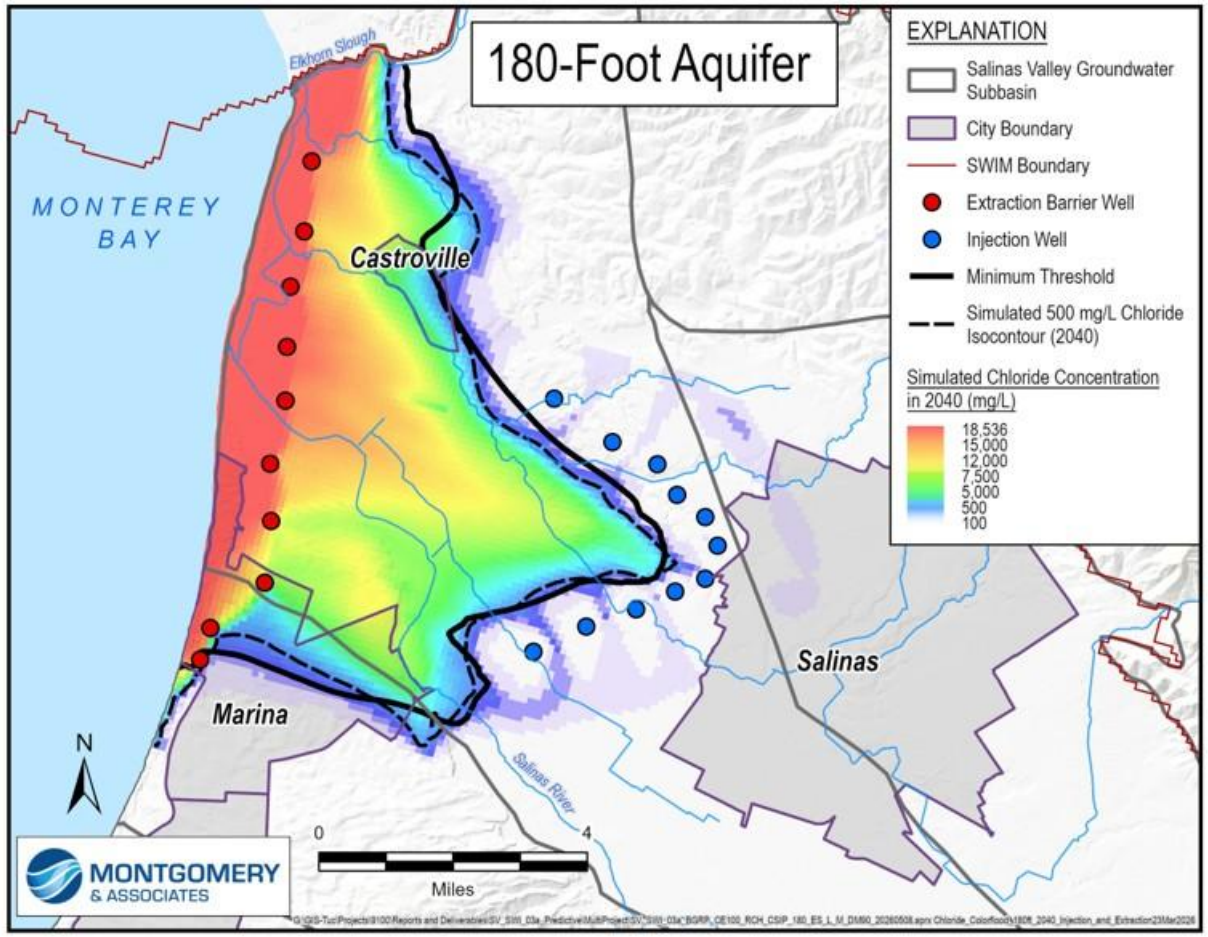
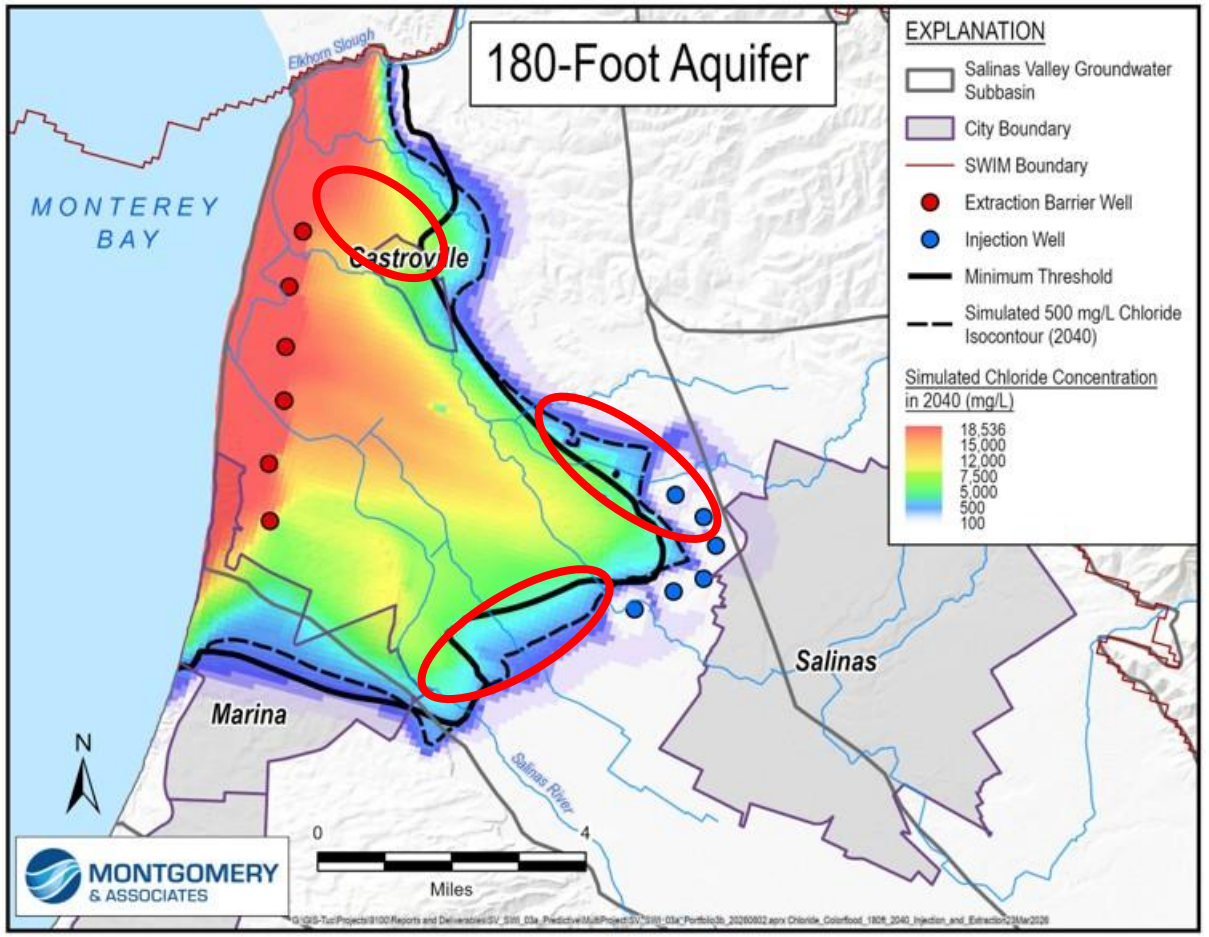
180-Ft Aquifer Chloride: Portfolios 1 and 3B

Portfolio 1

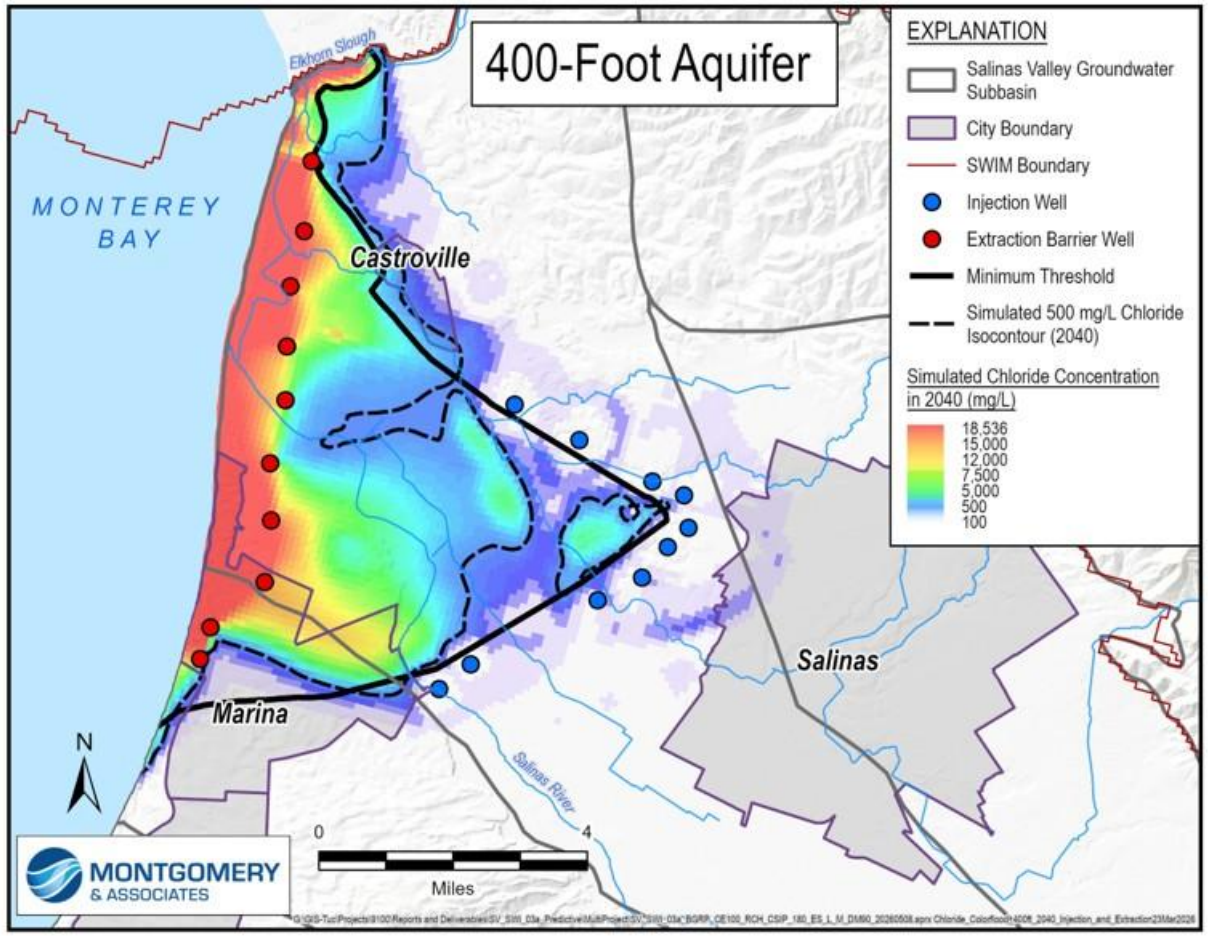


Portfolio 3B

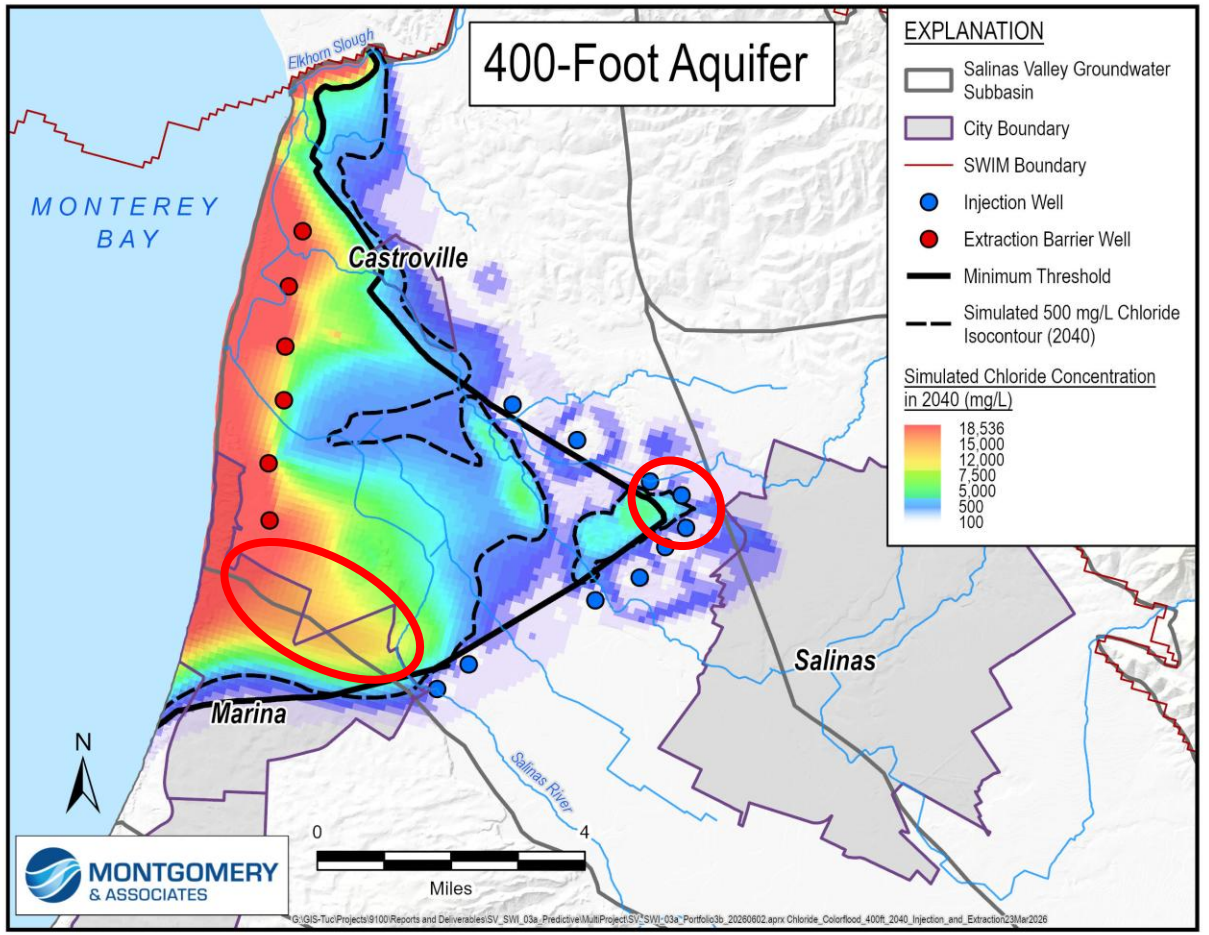


400-Ft Aquifer Chloride: Portfolios 1 and 3B

Portfolio 1



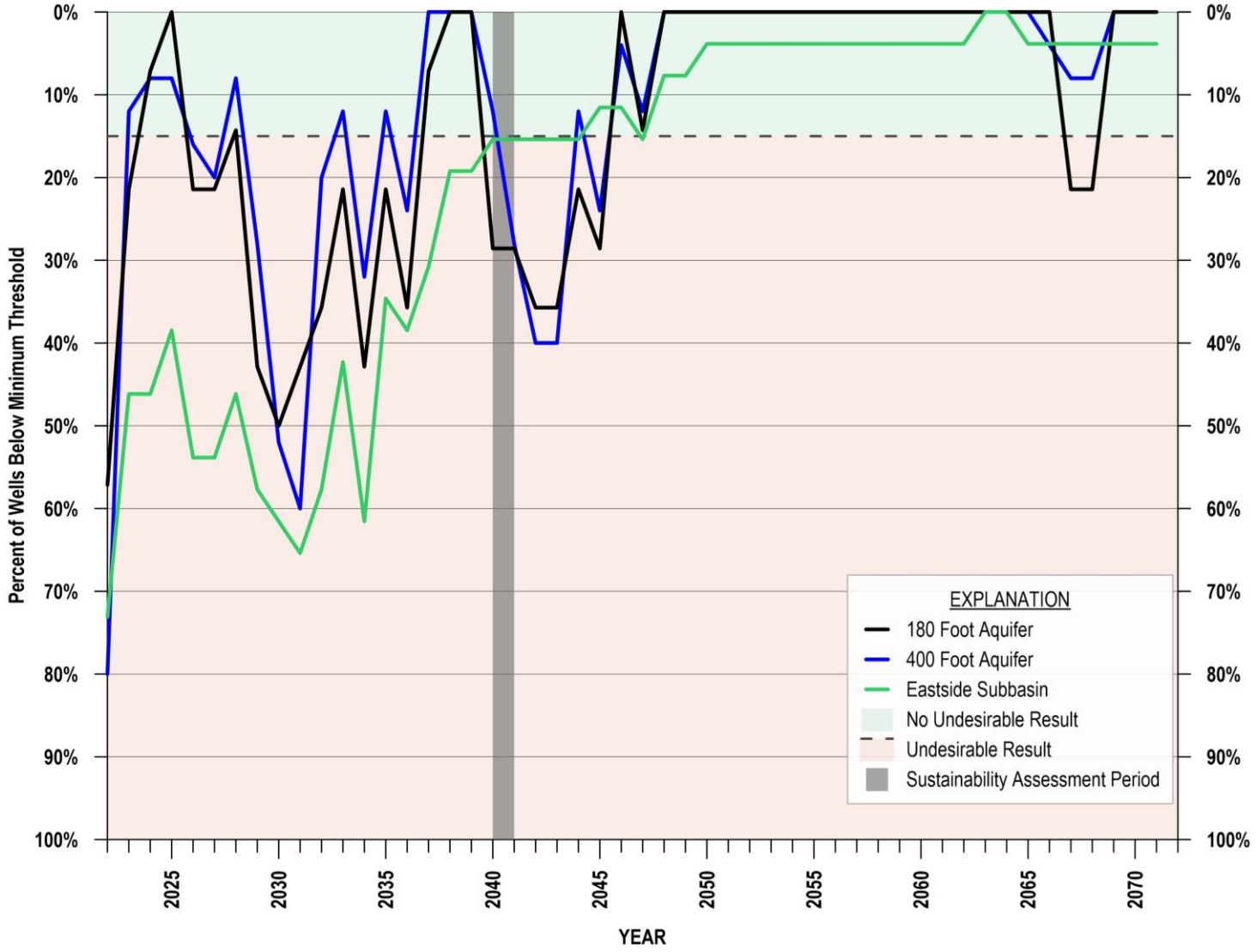
Portfolio 3B



Groundwater Level SMC: Portfolio 3b

Subbasin/Aquifer	Threshold Exceedances	Total Wells	% Threshold Exceedances
180-Foot Aquifer	6	20	30%
400-Foot Aquifer	5	27	19%
Eastside Subbasin	5	33	15%
Langley Subbasin	7	13	54%

Groundwater Level SMC: Portfolio 3b



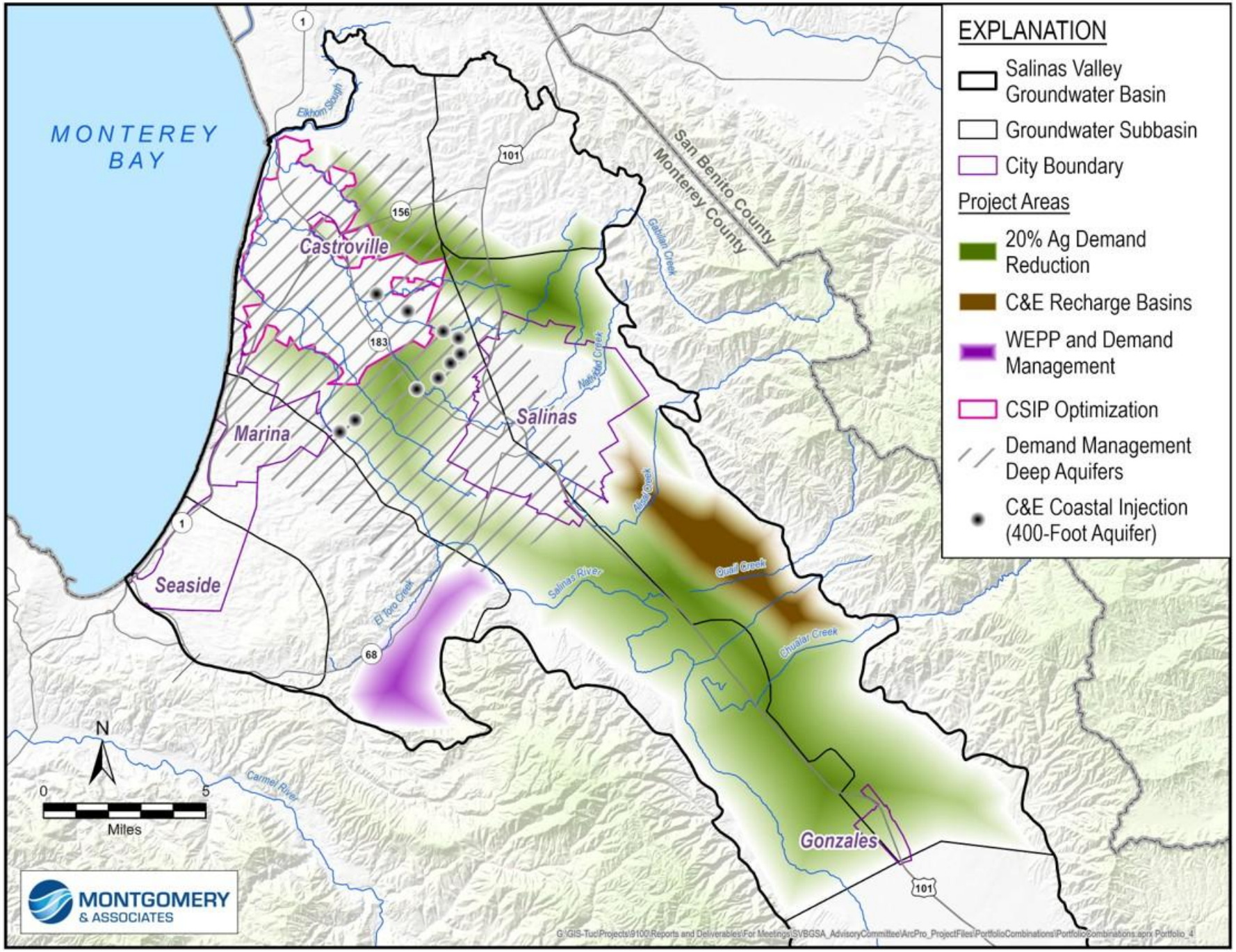
Portfolio 4

C&E 50 CFS Recharge Basins

CSIP Optimization

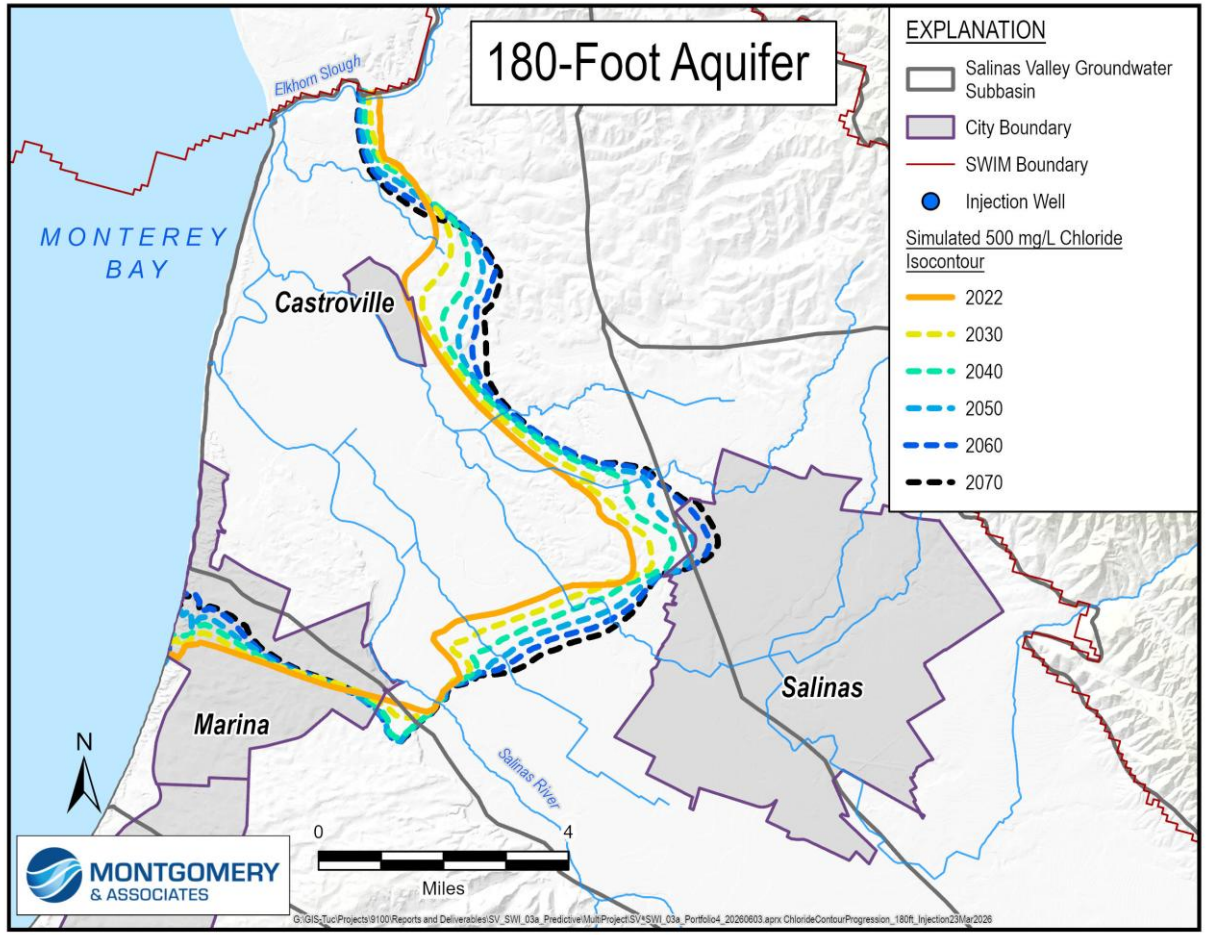
20% Ag Demand Management (North Valley)

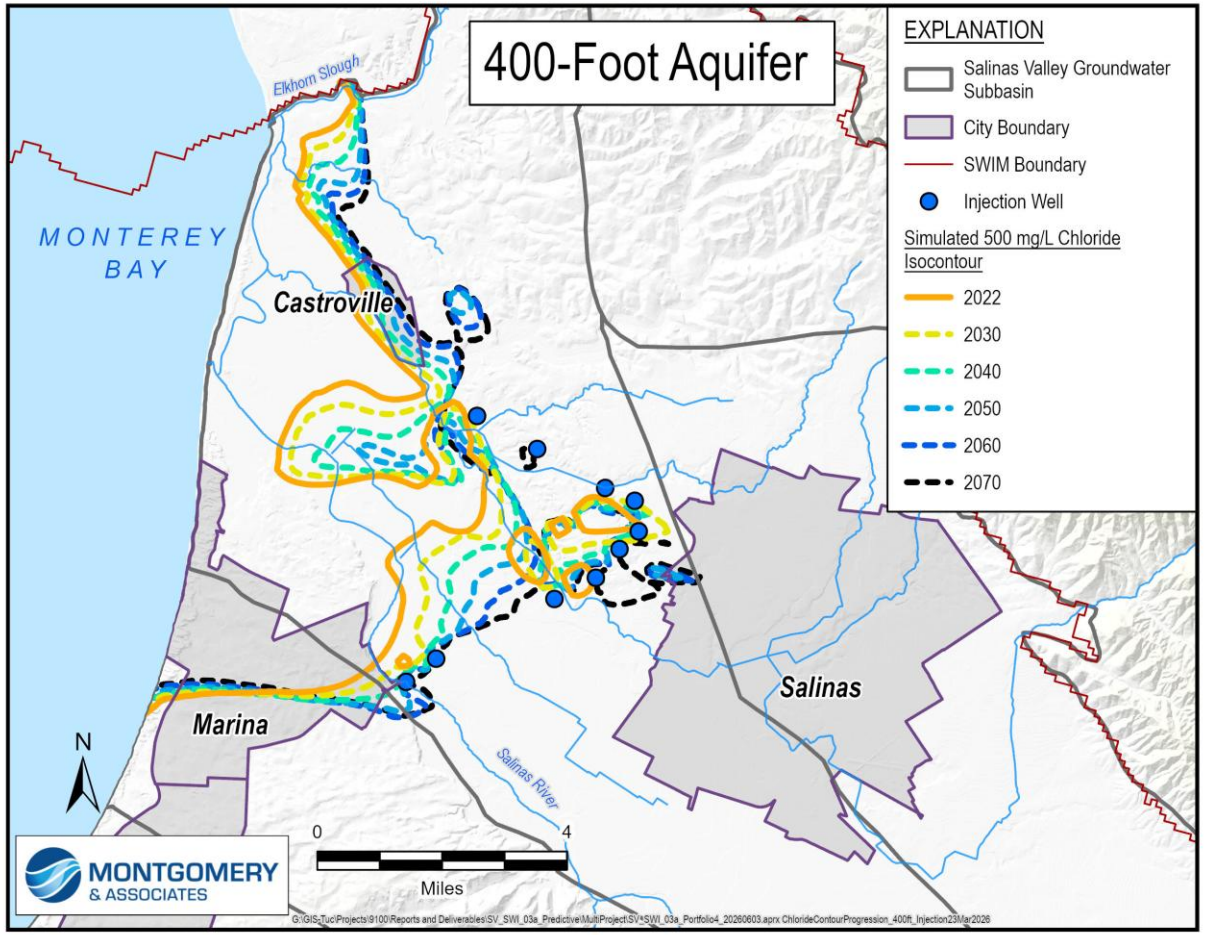
C&E Injection (400-Foot Aquifer) with 50 CFS Diversion



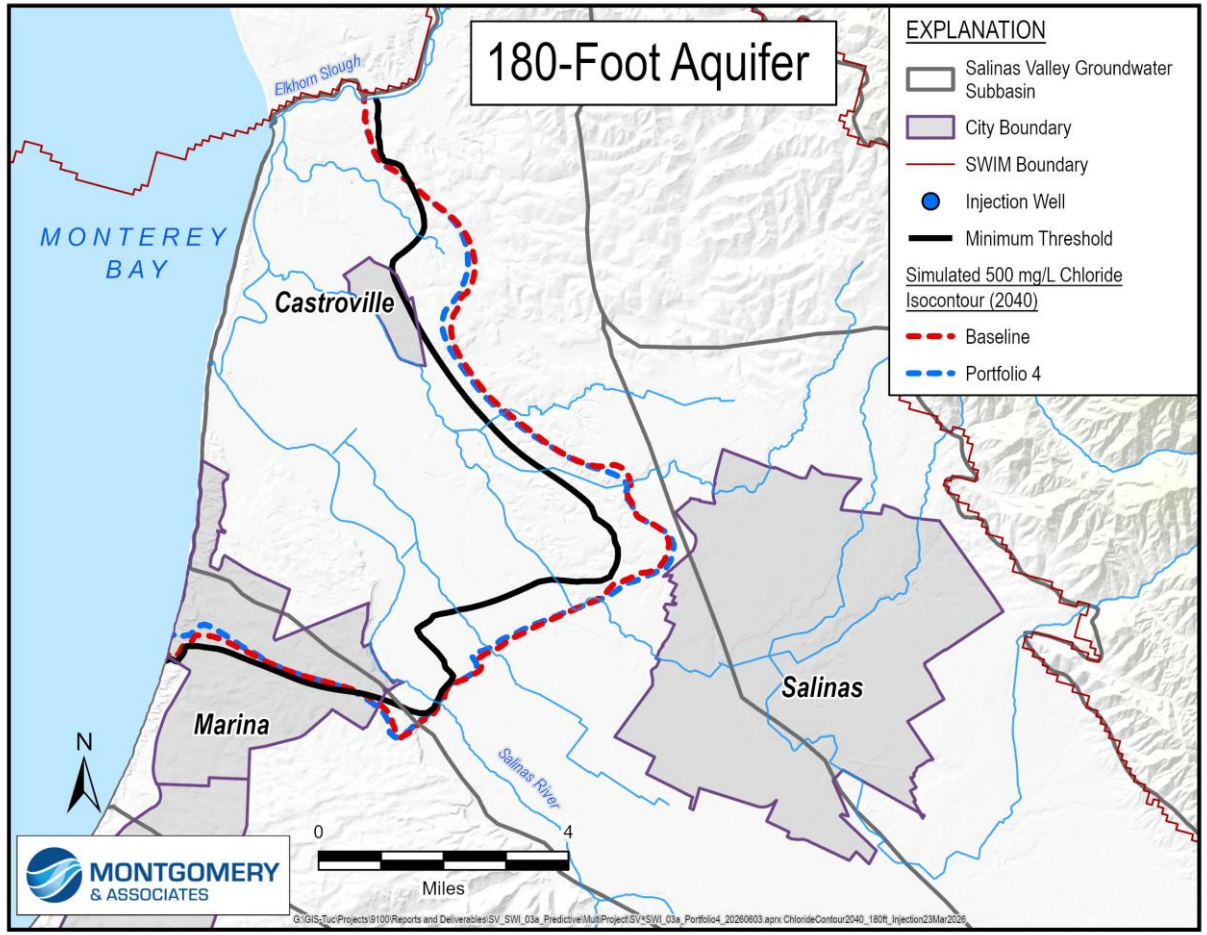
Portfolio 4 Map

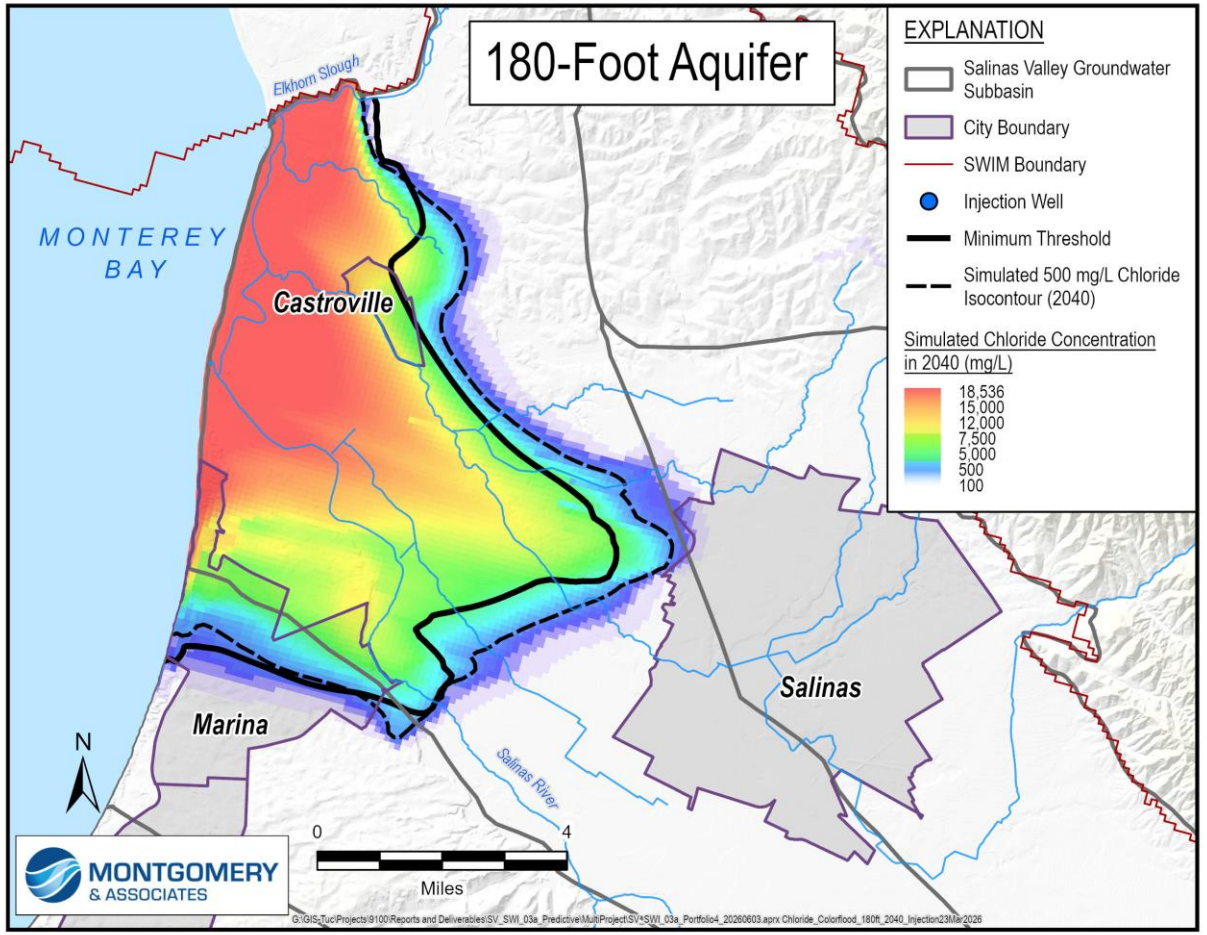
Chloride Contour Progression





180-Ft Aquifer Chloride Results in 2040





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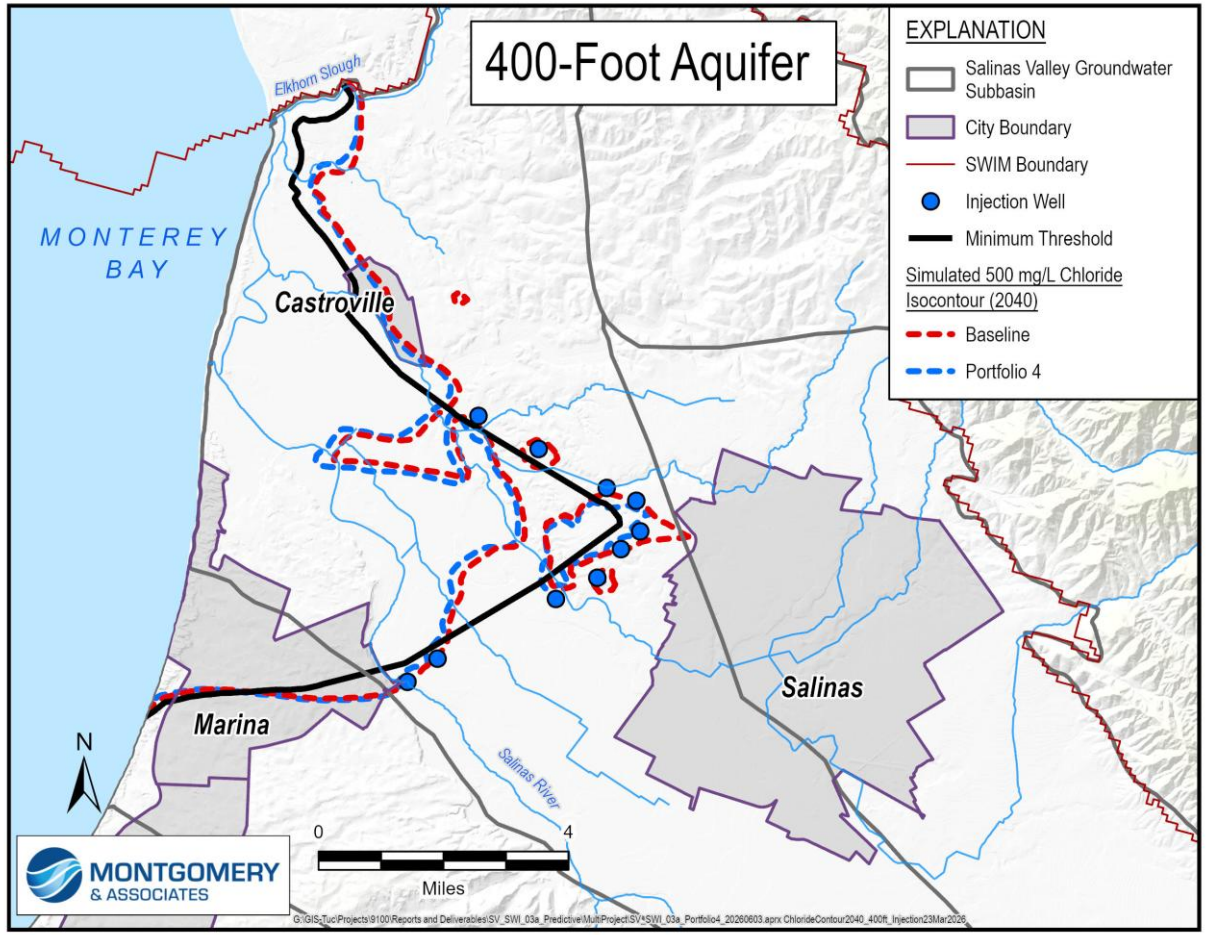
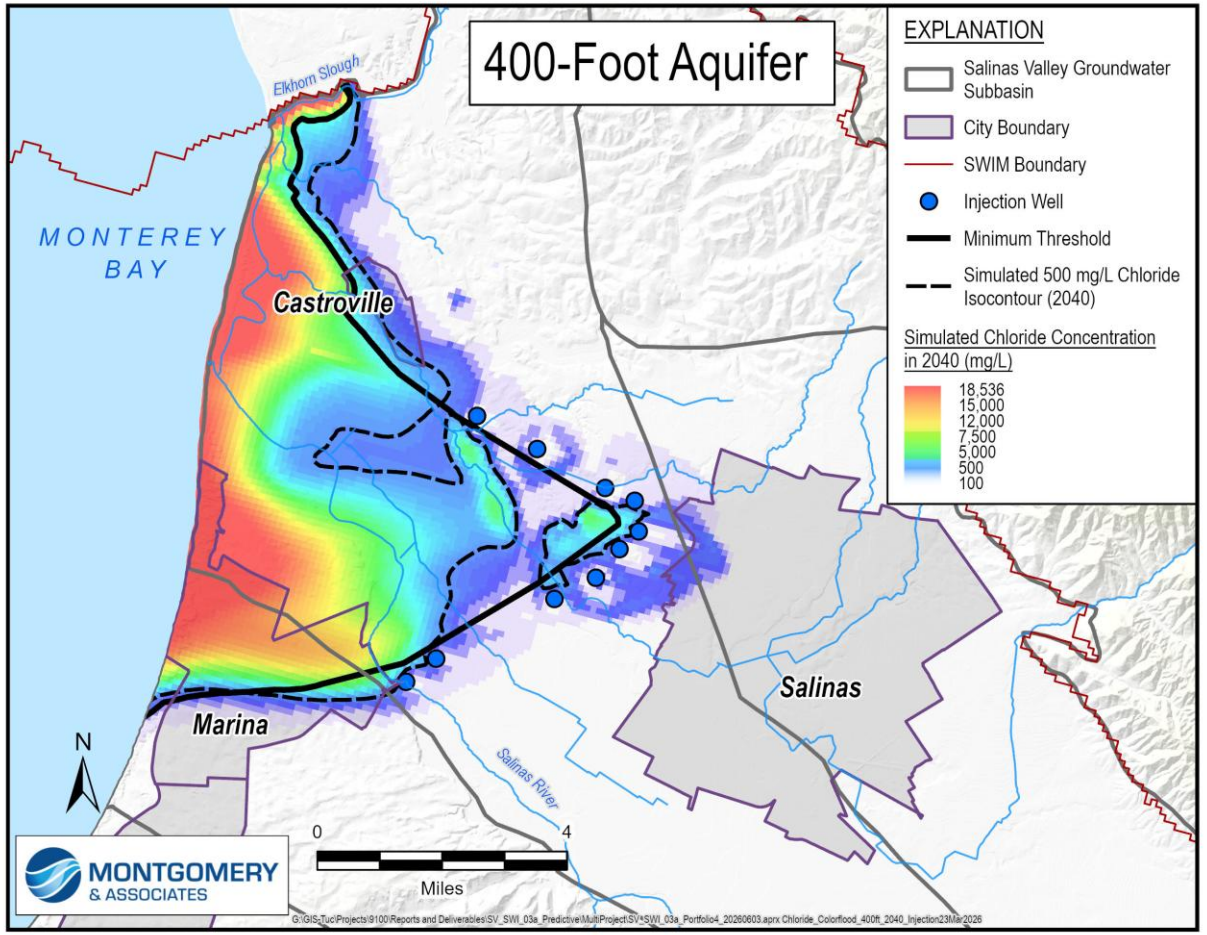
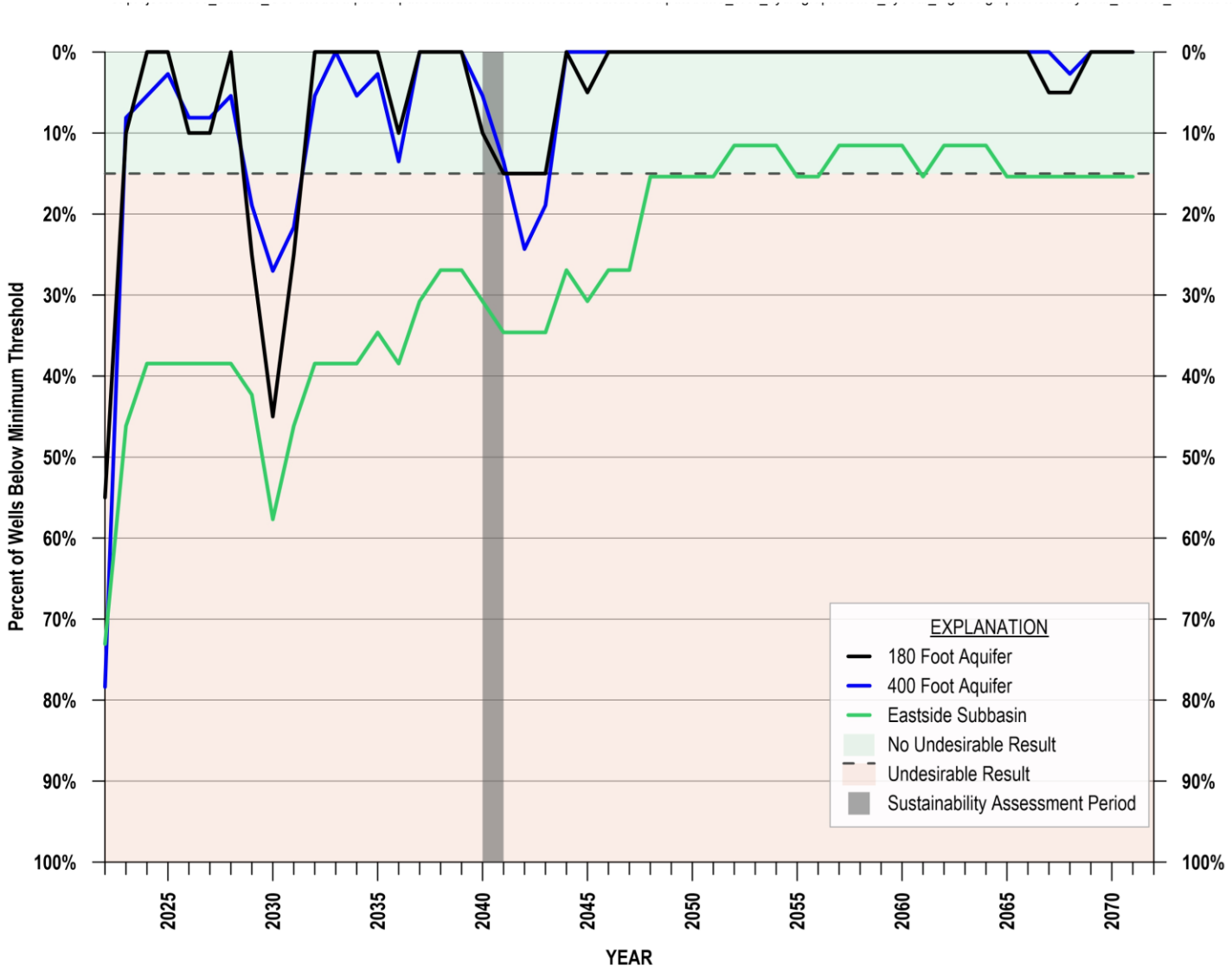




Groundwater Level SMC: Portfolio 4

Subbasin/Aquifer	Threshold Exceedances	Total Wells	% Threshold Exceedances
180-Foot Aquifer	4	26	15%
400-Foot Aquifer	3	39	8%
Eastside Subbasin	9	33	27%
Langley Subbasin	5	13	38%

Groundwater Level SMC: Portfolio 4



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Effectiveness Summary

	Avoid Seawater Intrusion Undesirable Result	Avoid Groundwater Level Undesirable Result – 180 Foot Aquifer	Avoid Groundwater Level Undesirable Result – 400 Foot Aquifer	Avoid Groundwater Level Undesirable Result – Eastside Subbasin	Avoid Groundwater Level Undesirable Result – Langley Subbasin
Portfolio 1	Yes	No	Yes	No	No
Portfolio 3B	No (but close)	No	No	Yes	No
Portfolio 4	No	Yes	Yes	No	No

Potential Portfolio Refinements Ideas

- Remove C&E injection in 400-foot aquifer to reduce cost
- Larger projects and no demand management

- Other?

Questions

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